

PROJECT: Midnite Mine Remediation**REPORT NO:** 2021-20**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining**SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:**

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period Aug 6 – 12, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: [\[REDACTED\]](#)

SITE HEALTH, SAFETY, AND SECURITY

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period Aug 6 – 12, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	1
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: There was one property damage for the week. A Newmont employee struck a deer running across the road. There were no injuries, but the light vehicle's drivers side door was damaged.			

COMMUNITY LIAISON

- Community notifications continue to be sent to Mr. Sherwood for site equipment deliveries and WTP Solids transport.
- Ted McDermott from the Spokesman Review interviewed the EPA, the Tribe and Newmont via phone with on 12 Aug. STOI approved a site visit by the reporter.

PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS**Weekly Progress Meeting:**

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 11 August 2021;

- EPA
- Spokane Tribe of Indians
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX
- Stantec

Meeting Action Items:

- As requested, Pit 4 Overburden sections were submitted to the EPA on 11 August.

EPA Plan/Document Approvals:

- On 10 August, EPA concurred with the proposed plan for the South Pond West Cell leak location investigation.

Regulatory Site Visit(s):

- Mark Fillius, USACE, was on Site on 6 August.

REMEDIAL WORK ACTIVITIES

Construction:

During the week of Aug 6 – 12, 2021, the following activities were conducted:

- Newmont excavated, hauled and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP) Newmont placed these materials in the Pit 4 Waste Containment Area (WCA).
- Newmont completed excavation of the Pit 4 Overburden Pile stormwater channel. Material removed during excavation of the channel was placed in the Pit 4 WCA.
- SLV Earthmovers continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with samples of Drain Gravel and Geomembrane Bedding Material submitted to Budinger and Associates for gradation analysis.
- Newmont began installation of the Pit 3 dewatering pipeline. The 10-inch HDPE pipeline was installed from the edge of water in Pit 3 to the South Pond. The diffuser end was installed in the South Pond in accordance with the *Pit 3 Dewatering Work Plan* (Stantec, 2021).
- Newmont began adding WTP effluent water to the east cell of the South Pond in preparation for the leak location survey by Hydrogeophysics, Inc on 24 Aug.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 6 August. Visible dust from the crushing operation conformed with project requirements.
- Stantec performed South Pond embankment stability inspection on 6 August. The embankment remains stable and the water level in the South Pond piezometer remains below the action level.
- Newmont, Budinger & Associates, and Stantec walked the planned locations for the (b) (6) Borrow wells to plan access for well drilling. Drilling is scheduled to begin 13 Sep.
- Halme Construction resumed Effluent Pipeline construction activities. Work activities included:
 - Pipeline installed to Station 45+55.
 - Prepared for manhole installation at Sta 14+63. Manhole has not been installed.
 - Started fusing pipeline down Blue Creek Road.

Table 1 – 2021 Production Estimates

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd ³)	Estimated Volume ¹ (yd ³)	% of Planned	Planned Production (yd ³)	Estimated Volume ¹ (yd ³)	% of Planned	
Haulage to Pit 4							
SWRP	17,919	52,864	295%	437,375	748,076	171%	99%
HSWRP	1,889	0	0%	36,090	2,828	8%	4%

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd ³)	Estimated Volume ¹ (yd ³)	% of Planned	Planned Production (yd ³)	Estimated Volume ¹ (yd ³)	% of Planned	
Pit 4 Overburden	14,700	252	2%	197,680	321,748	163%	96%
CSZ Cleanup	417	0	0%	2,000	28,700	1435%	574%
Total	34,925	53,116	152%	673,145	1,101,352	164%	95%
Aggregate Production							
Drain Gravel	8,500	11,025	130%	166,600	136,123	82%	45%
Liner Bedding	0	0	--	9,250	9,414	102%	102%
Geomembrane Bedding	8,500	9,872	116%	166,600	137,605	83%	36%
Total	17,000	20,897	123%	342,450	283,142	83%	41%

1 - Truck load assumed to be 27 yd³

Stormwater Pollution Prevention Plan (SWPPP)

- Newmont completed excavation of the Pit 4 Overburden Middle stormwater channel.

Spill Prevention, Control, and Countermeasure Activities (SPCC)

- No reportable spills.

Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Halme mobilized a water truck

The following equipment was demobilized from the Site during this reporting period.

- None.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

Materials:

The following material was delivered to the Site during this reporting period.

- None.

CONSTRUCTION QUALITY ASSURANCE

Dust Control and Monitoring

All eight dust monitors were turned back on Monday (8/9/2021) but were turned off again on Wednesday night (8/11/2021) at approximately 8:30 p.m. due to alarms received from smoke due to a combination of local area and regional fires. Monitor locations and operating time-periods are as shown in Table 2 below. All three water trucks (2,200, 4,000 and 9,000-gallon capacity) were used for dust suppression as needed during mine site construction activities. Construction activities for the Effluent Pipeline restarted on Monday (8/9/2021).

Bison Engineering rescheduled their site visit for Thursday (8/19/2021) to conduct monthly dust monitor calibrations. They are also planning to install a new cradle-point for the dust monitoring system's base station datalogger.

The Quarterly Monitoring Report No. 17 (Second Quarter 2021) was completed on 8/13/2021.

Table 2 - TSP Dust Monitoring Locations during reporting period Aug 6 – 12, 2021

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	E			D/N	D/N	D/E	E
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	E			D/N	D/N	D/E	E
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	E			D/N	D/N	D/E	E
ES-4 (roving)	Northeast Side of the SCSZ	04/16/21	E			D/N	D/N	D/E	E
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	E			D/N	D/N	D/E	E
ES-6 (roving)	East of HSWRP above High Road	03/23/21	E			D/N	D/N	D/E	E
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	E			D/N	D/N	D/E	E
ES-8 (stationary)	NAR ~Station 14+00	06/29/21	E			D/N	D/N	D/E	E
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke , pollen, heavy rain, etc.) O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title	CQC-CQA Issue Date	
None			
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date
2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment Mine Site Summary Memo for the South Pond Dewatering Well & Piezometer sent to EPA on 7/18/2021 Received Additional Questions from the EPA on 8/9/2021 Stantec preparing responses.	3/19/2021	Conditional EPA Approval Received on 5/11/2021 Final EPA Approval TBD
2021-02	Modifications to Pit 3 Underdrain and Dewatering Sumps Mine Site Stantec Response to EPA Comments were sent on 8/4/2021	6/8/2021	Final EPA Approval Received 8/12/2021
Notice of Non-Compliance			

NNC No. and Dates	Title/Description	CQA	CQA/EPA Response Date(s)
None			
Project RFIs			
RFI No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
HC-2021-06	NAR Lead-Off Crossing and Pipeline Alignment Adjustment Effluent Pipeline Design Engineer's Response Received 6/29/2021 EPA Comments Received 7/14/2021 Stantec Responses Sent on 8/11/2021	6/17/2021	CQA – 7/1/2021 EPA - TBD
2021-05	June 2, 2021 Liner Bedding Gradation Test Results (Crusher Sample) Mine Site	7/6/2021	CQA – 7/13/2021 EPA Approval Received 8/13/2021
HC-2021-10	Trench Backfill in Open Areas – Moisture Allowance Effluent Pipeline	8/3/2021	CQA – 8/11/2021 EPA - TBD
Submittals			
Submittal No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
02272-15	South Pond Geomembrane – 2021 Liner Repairs Mine Site	6/21/2021	CQA – 7/22/2021 EPA - TBD
02970-08	Temporary Erosion Seed Mix as Installed on June 30, 2021 Mine Site	7/6/2021	CQA – 8/4/2021 EPA Approval Received 8/12/2021
01300-05	South Pond Vibrating Wire Piezometer – Product Sheets and Calibration Certs. Mine Site	7/7/2021	CQA – 8/5/2021 EPA Approval Received 8/12/2021
02272-16	South Pond Liner Repair Data for June 8 through July 1, 2021 Mine Site	7/7/2021	CQA – 7-22-2021 EPA - TBD
HC-02200-05	Soil Analysis/Proctor – Native Screened Soil from Blue Creek (for use as pipe bedding only) Effluent Pipeline STOI Approval Received 8/3/2021	7/12/2021	CQA – 7/13/2021 EPA Approval Received 8/9/2021
02272-17	South Pond Liner Repair Data for July 16, 2021 Mine Site	7/27/2021	CQA – 8/1/2021 EPA - TBD
HC-02200-06	Pace Analytics Report on Lincoln Sand and Gravel Bedding (Radiological Test Results) Effluent Pipeline	8/4/2021	CQA – 8/11/2021 EPA - TBD
Other Items			
Item	Title	Comments	
None			

Copies of the updated CQA Logs are being updated and will be located on the project SharePoint site under the 2021 CQA Folder.

Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

Preparatory Inspections / Meetings

- None

Initial Phase Inspections

- None

Follow-up Phase and Ongoing Inspections

- Mine Waste Placement in Pit 4 – Low activity/low reactivity material from the SWRP, Middle Overburden Pile - no restrictions on placement.
- Tracking Dust Monitoring System
- Effluent Pipeline – BMPs
- Effluent Pipeline – Density Testing/Backfill Reports
- Effluent Pipeline – Pipe Welding/Datalogger Reports
- South Pond Liner Leak Investigation and Repairs
- Equipment Mobilization Inspections

Completion Inspections

- None

THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:
<u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments <ul style="list-style-type: none">• Attachment A – Midnite Mine 3 Week Lookahead Schedule
Photos of pertinent items are provided below.



Figure 1 – Crushing and screening operations at the HSWRP.



Figure 2 – Placement of low activity/low reactivity material in Pit 4.



Figure 3 – Excavation, loading and hauling of low activity/low reactivity material from the SWRP, loadout 1.



Figure 4 – Completed drainage ditch around bench along at the Pit 4 overburden, view looking southeast.



Figure 5 – Pit 3 dewatering pipe with TEE installed to discharge into the South Pond.



Figure 6 – Utility Crew preparing the Pit 3 Dewatering Pipeline diffuser tee



Figure 7 – Smoky conditions as seen from dust monitor ES-6, looking south



Figure 8 – Excavation at Station 14+63 – first manhole location on the Effluent Pipeline



Figure 9 – Welding Effluent Pipeline to the pipeline under West End Road



Figure 10 – Welding Effluent Pipeline pipe along Blue Creek Road

ATTACHMENT A

MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE

Activity ID	Activity Name	RD	% Complete	Start	Finish	Aug 08							Aug 15							Aug 22							Aug 29							Sep 05						
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr
17. Excavation and placement of materials into Pit #4																																								
17-1240	Excavate and Haul SWRP (Middle Zone Mining -All Phase A) Pit	55d	73%	29-Mar-21 A	29-Oct-21	<div></div>																																		
18. Complete Repair of South Pond																																								
18-1040	Support South Pond Pumping Station Construction and Commisic	15d	70%	23-Apr-21 A	02-Sep-21	<div></div>																																		
18-1150	Commission the South Pond	15d	50%	09-Jul-21 A	02-Sep-21	<div></div>																																		
20. Haul and place Cover material over the Pit#4 WCA																																								
20-1050	Haul Crushing and Screening Rejects Material to Pit#4	87d	4%	29-Mar-21 A	16-May-22	<div></div>																																		
20-1060	Produce Geomembrane Bedding for Pit#4	87d	36%	29-Mar-21 A	16-May-22	<div></div>																																		
20-1070	Haul Geomembrane Bedding to Stockpiles for Pit#4 Cap	92d	36%	29-Mar-21 A	23-May-22	<div></div>																																		
23. Reclaim disturbed Portion of the (b) (6) Borrow Area																																								
23-1000	Contract seed collection from (b) (6) Borrow	30d	5%	06-Aug-21 A	24-Sep-21	<div></div>																																		
26. Construct the new WTP and Pipeline for discharge																																								
26-3070	Erosion Control BMP's & Site Controls	0d	50%	07-Jun-21 A	13-Aug-21	<div></div>																																		
26-3090	Material Staging & Pipe Fusing	6d	35%	07-Jun-21 A	20-Aug-21	<div></div>																																		
26-3080	Clearing & Grubbing	55d	70%	18-Jun-21 A	29-Oct-21	<div></div>																																		
26-3120	Install MH at STA 34+55	3d	95%	15-Jul-21 A	17-Aug-21	<div></div>																																		
26-3130	Progress to STA 50+00	7d	50%	26-Jul-21 A	23-Aug-21	<div></div>																																		
26-3140	Progress to STA 66+00	10d	45%	29-Jul-21 A	26-Aug-21	<div></div>																																		
26-3150	Progress to STA 86+00	13d	20%	04-Aug-21 A	31-Aug-21	<div></div>																																		
26-3250	Culvert #1 (STA 74+75)	1d	0%	30-Aug-21	30-Aug-21	<div></div>																																		
26-1740	Develop WTP Construction Work Plans for Approval	30d	0%	01-Sep-21	13-Oct-21	<div></div>																																		
26-3160	Progress to STA 106+00	7d	0%	01-Sep-21	10-Sep-21	<div></div>																																		
26-3260	Culvert #2 (STA 91+60)	1d	0%	09-Sep-21	09-Sep-21	<div></div>																																		
26-3360	18" Culvert Installation at West End Approach	1d	0%	28-Sep-21	28-Sep-21	<div></div>																																		
27. Produce drain rock and other materials necessary for the sub-waste line																																								
27-1000	Produce Drain Gravel for Pit 3	92d	59%	29-Mar-21 A	23-May-22	<div></div>																																		
27-1030	Haul Drain Gravel, Stockpile (301k cy)	92d	59%	29-Mar-21 A	23-May-22	<div></div>																																		
28. Initiate construct of the Pit#3 sump including initial construction of unde																																								
28-1180	Install Pit 3 dewatering system to transfer water to South Pond (1,000 GPM)	15d	90%	06-Jul-21 A	02-Sep-21	<div></div>																																		
28-1140	Install pumps and generators	4d	0%	13-Aug-21	18-Aug-21	<div></div>																																		

Activity ID	Activity Name	RD	% Complete	Start	Finish	Aug 08							Aug 15							Aug 22							Aug 29							Sep 05						
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr
28-1190	Route Pit #4 temporary dewatering line to South Pond	10d	0%	13-Aug-21	26-Aug-21																																			
28-1160	Route PCP, Blood Pool, from Pit #3 to South Pond	5d	0%	27-Aug-21	02-Sep-21																																			
28-1320	Transfer water from Pit #3 to South Pond (1,000 GPM)	44d	0%	03-Sep-21	06-Apr-22																																			